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1600

RAW SEQUENCE LISTING

DATE: 04/18/2003

PATENT APPLICATION: US/09/881,556A

TIME: 14:25:46

Input Set : N:\Crf4\04082003\I881556.raw

Output Set: N:\CRF4\04182003\I881556A.raw

1 <110> APPLICANT: Simonsen, J. Neil
 2 <120> TITLE OF INVENTION: Cryptosporidium Parvum Antigens, Antibodies Thereto and
 Diagnostic and
 3 Therapeutic Compositions Thereof
 4 <130> FILE REFERENCE: SASK-008/01US
 5 <140> CURRENT APPLICATION NUMBER: US/09/881,556A
 6 <141> CURRENT FILING DATE: 2001-06-14
 7 <150> PRIOR APPLICATION NUMBER: US 60/212,083
 8 <151> PRIOR FILING DATE: 2000-06-15
 9 <160> NUMBER OF SEQ ID NOS: 6
 10 <170> SOFTWARE: PatentIn version 3.1
 12 <210> SEQ ID NO: 1
 13 <211> LENGTH: 1380
 14 <212> TYPE: DNA
 15 <213> ORGANISM: Cryptosporidium parvum
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 19 caataccaaac cacaaagatt ctggttaaa tgataaaaata ttgaaatga ttacagatga 180
 20 attcaaaaaa ttgaccttta gctgtccaa agaattaaat gattcggtt cttcagcaat 240
 21 tagcaagtat tttagaaccga tcgaacgtga tatacatcta ttaagtgcga tttgtcagga 300
 22 atcgagaagt ctgttgataa ttatgttaat atcaatgaaa ttctaaaat taaaacaaat 360
 23 -gttaaggaac ttcttacaag tacaatgag aaattaacaa gcatcgacac ttgtatttcg 420
 24 aggcttggtg gcgaatctag aagcgttcgt gaaaaagtga ctaaattaaa taaacaatgc 480
 25 gataacatta actcgaatcc aatagacaac ttactcaag tagtagcaga ttcatttggg 540
 26 acattaacta atgcagttac tcaattgcaa acaactgtta atcgtttggg attacagatc 600
 27 agtaatggaa taccactaaa aacgtttac accagataac tcaattacaa taagagcgcc 660
 28 ccaaaacata gcttgcaaa ttgatgatgc cttaaaccaa aacattacga tcggcatttc 720
 29 ggatagcaat tctggatcaa tctactcta tctcaatcag ataagagaga aatccaagcg 780
 30 gagaatgttt tgtttgaaac cttgcatata agttgaccc atgtgtttgg ttggatgatc 840
 31 cagcttccta ttagccatcc agtaatatta ggaatttcaa aaattttgag cgatactctt 900
 32 cctcatttaa ttgaatctt aaagaccagc tgtaatttt ctc当地attag ctgcatttca 960
 33 gatttaaat tgagaatatt atggataaaa gaaaccattc actgtttga accatttact 1020
 34 gatactctt cacctagta gtaatgcata tactaaatga aatttcagaa gtatgaacaa 1080
 35 atgcatttagc attataaatt cggttagcga tgcaagtaaa agcatgaact atattgtacc 1140
 36 tgcattgttc acggatgggt cgatcatcag tgatattact agcatattaa ggcattttag 1200
 37 aaggacaact agaaatatta catctggat gaaataaatt aataagggggt agaatttagat 1260
 38 atttttcatg taaataaatt agcgttattg aggattattc gaaataaata atagagatat 1320
 39 taagtttagt ttttattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaactcgag 1380
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 129
 43 <212> TYPE: PRT
 44 <213> ORGANISM: Cryptosporidium parvum
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46 Ala Arg Glu Leu Pro Ser Asp Arg Ser Asn Leu Leu Thr Ser Ile Phe
 47 1 5 10 15
 48 Thr Thr Leu Asn Met Glu Glu Lys Gln Ser Met Ser Asn Pro Gln Ser
 49 20 25 30
 50 Lys Asn Thr Asn Thr Ser Asn Thr Asn His Lys Asp Ser Gly Leu Asn
 51 35 40 45
 52 Asp Lys Ile Phe Glu Met Ile Thr Asp Glu Phe Lys Lys Leu Thr Phe
 53 50 55 60
 54 Ser Leu Ser Lys Glu Leu Asn Asp Ser Val Ser Ser Ala Ile Ser Lys
 55 65 70 75 80
 56 Tyr Leu Glu Pro Ile Glu Arg Asp Ile His Leu Leu Ser Arg Ile Cys
 57 85 90 95
 58 Gln Glu Ser Arg Ser Leu Leu Ile Ile Met Leu Ile Ser Met Lys Phe
 59 100 105 110
 60 Leu Lys Leu Lys Gln Met Leu Arg Asn Phe Leu Gln Val Gln Met Arg
 61 115 120 125
 62 Asn
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 65 <211> LENGTH: 1323
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Cryptosporidium parvum
 68 <400> SEQUENCE: 3
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 70 acgtgcataa gtcattattt gttttaatc cagatggatc cggaaatttt aaaaacattt 120
 71 ctactaaattt cggaaataaa tttagcttg gcttgataaa tggtagttgg ctcggaggtg 180
 72 atattttat ccttgatagg aaacacgctc ttgaagctgt aagttattca atcgcttgtg 240
 73 ttttctatac aaaaacatgt ttgaaaaga atgaagcaca ttgtcttaaa ccctttaatc 300
 74 gcgctgagaa taaaatgact ttgggttctg agaaagactt agcgacaact ctccaatctt 360
 75 ctaattctga atattatctt ttcccttacat ggaataactg cattcttggg tatattccaa 420
 76 ttaacacaaa taaaatcaac aaaaattctc ttgaaagttc cgagaaaaac tcaatctcca 480
 77 caattggata ttggagtatt atcgatggat ttcttctt ttaattaaa catgcgccta 540
 78 taaaagaaaa tggccacttg aataatcaag aatcaaaaata ttcaaaaatga aataatgaag 600
 79 ccactaaact caacaaatcc agaatcaggt gggataact taactcagaa ccaaaacaca 660
 80 aagctctatc cagttgttag accgcatctc acagaaaaagc cctcaaatgg tgaacatcaa 720
 81 gaatctggtt cagagcaagc cccttattacc tcaccagaaa acgaatcaag ttcaaatcat 780
 82 cttctgtga cagttccaga tactggatca gttcaaatct cttctgtta ctattccaga 840
 83 gactggatca gactcagatc acgcgccttg tgacaattcc agagactgga tcagttcaaa 900
 84 tcatcttctg ctactatacc agaaacagga tccagctcag atcacactct gctacttctc 960
 85 cagaagaagg attggactca gaacgttacc aatcacttct acagaacaaa ctcaaagcca 1020
 86 gctacatatac ctaaccaaga aatgaaaat cataataatc aggaaggtaa ttcgagttt 1080
 87 aatacactaa atcttccaaa tcaacccaaat cttcacgca agctggcaga tggaaaagt 1140
 88 tatggggaaa aggataaaaat ggttgatggt gagcaagtaa tcactaaaaa tgacattatt 1200
 89 gaagatactt cggaaagaaat tagaaacaaa atgtaaagta tctgcattga taaatatggc 1260
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 94 <211> LENGTH: 193
 95 <212> TYPE: PRT
 96 <213> ORGANISM: Cryptosporidium parvum

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99      1           5           10          15
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101     20          25          30
102     Ile Leu Lys Asn Ile Ser Thr Lys Phe Glu Ile Lys Phe Glu Leu Gly
103     35          40          45
104     Leu Ile Asn Gly Ser Trp Leu Gly Gly Asp Ile Phe Ile Leu Asp Arg
105     50          55          60
106     Lys His Ala Leu Glu Ala Val Ser Tyr Ser Ile Ala Cys Val Phe Tyr
107     65          70          75          80
108     Thr Lys Thr Cys Phe Glu Lys Asn Glu Ala His Cys Leu Lys Pro Phe
109     85          90          95
110     Asn Arg Ala Glu Asn Lys Met Thr Phe Gly Ser Glu Lys Asp Leu Ala
111     100         105         110
112     Thr Thr Leu Gln Ser Ser Asn Ser Glu Tyr Tyr Leu Phe Leu Thr Trp
113     115         120         125
114     Asn Asn Cys Ile Leu Gly Tyr Ile Pro Ile Asn Thr Asn Lys Ile Asn
115     130         135         140
116     Lys Ile Ser Leu Glu Ser Ser Gly Glu Asn Ser Ile Ser Thr Ile Gly
117     145         150         155          160
118     Tyr Trp Ser Ile Ile Asp Gly Phe Ser Ser Ser Leu Ile Lys His Ala
119     165         170         175
120     Pro Ile Lys Glu Asn Gly His Leu Asn Asn Gln Glu Ser Lys Tyr Ser
121     180         185         190
122     Lys
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125 <211> LENGTH: 29
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial
128 <220> FEATURE:
129 <223> OTHER INFORMATION: primer
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134 <211> LENGTH: 29
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: primer
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6

VERIFICATION SUMMARY

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